



OIIPE

RAW SEQUENCE LISTING

DATE: 03/19/2002

PATENT APPLICATION: US/10/071,510

TIME: 17:53:54

Input Set : N:\Crf3\02272002\J071510.raw

Output Set: N:\CRF3\03192002\J071510.raw

P-6
ENTERED

1 <110> APPLICANT: Clark, Edwin
 2 Grenfell, Tallessyn
 3 Lu, Karen
 4 Hartmann, Lynn
 5 Brown, Jeffrey L.
 6 <120> TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR THE
 7 IDENTIFICATION, ASSESSMENT, PREVENTION AND THERAPY
 8 OF HUMAN CANCERS
 9 <130> FILE REFERENCE: MRI-027
 10 <140> CURRENT APPLICATION NUMBER: US/10/071,510
 11 <141> CURRENT FILING DATE: 2002-02-08
 12 <150> PRIOR APPLICATION NUMBER: US 60/267,276
 13 <151> PRIOR FILING DATE: 2001-02-08
 14 <160> NUMBER OF SEQ ID NOS: 19
 15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 242
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Homo sapiens
 21 <220> FEATURE:
 22 <221> NAME/KEY: misc_feature
 23 <222> LOCATION: 57, 62, 71, 78, 117, 133, 137, 207, 219, 226, 229
 24 <223> OTHER INFORMATION: n = A,T,C or G
 25 <400> SEQUENCE: 1

W--> 26 aggtacaagc tttttttttt tttttttttt tttttttttt tctactgga atcgttnaat 60
 W--> 27 gngtctactt nttccacnca taattataaa agaataagaa tcgacaaaaa tttttntttt 120
 W--> 28 ccataatatg tanaggnggt tgggtttcttt tttttttttt ttctttttctt ttaacttttt 180
 W--> 29 tttttttttt tttttttttt gggctcnaaa gggggtagn ggggtncntt aggacctgcc 240
 30 cg 242
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 417
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Homo sapiens
 36 <220> FEATURE:
 37 <221> NAME/KEY: misc_feature
 38 <222> LOCATION: 338, 349, 388
 39 <223> OTHER INFORMATION: n = A,T,C or G
 40 <400> SEQUENCE: 2
 41 tttatgagaa agcagctatt aaaggtagag tgattcaagt ctataaggca atttatatcc 60
 42 tatatttagt ttttcattct gaatagactg aaaaaatata tgaattagaa atttatttaa 120
 43 gaccatcttt cttttgttgc ttttttttaa catttacttt tctttaagcc ataaggatgc 180
 44 ataaattata cagggcatga ccttatgagt aacatcaaca ggtatttcag aaataacaga 240
 45 acacgtctag aaatgtatgg tggtaatatt aatctataca ttttttgga tgatttgtac 300

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W--> 46 attgacattg tatgaaatga gcacactgag ggttttttngg tggtagtgnc gcatccaagg 360
W--> 47 aggttgggga gaactatata agaattgtntt ataataccta ttttaataaa agtaaaa 417
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 512
51 <212> TYPE: DNA
52 <213> ORGANISM: Homo sapiens
53 <400> SEQUENCE: 3
54 cgtgactgag gacagtgaag agagcccacc tgggtgtagag tgcctatctt agctgccaaag 60
55 aaaagcctaa tttatttttca gggcaaaact tctgcaactgg gacaaatgtc ttcattataa 120
56 tccaaaagca gcatcaggaa aagaagctga actgtgcgaa tagaaatgaa tggggctgct 180
57 gctgctgctg ctgctttctt tttaatcagt agaaatggaa ttctgcctgc caaacagaag 240
58 tctaggagga acctgcagac ggcccctgta ctgagggcct tttgtcaggg cttaaagcaa 300
59 ccttcaagat catgacactc tgctatgagg accgaaagaa cttggagata aatatacatg 360
60 tactatgttg tgggaccgat tttgaatctg aactaaatta aatgatggaa aacgaccttg 420
61 ggtgagttca ttcattgctg aacttgctgg gaatgatata acttttcaaa ataatttgtt 480
62 tccttcaaat gacaccaaca cctatagtta ag 512
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 356
66 <212> TYPE: DNA
67 <213> ORGANISM: Homo sapiens
68 <220> FEATURE:
69 <221> NAME/KEY: misc_feature
70 <222> LOCATION: 1, 17, 24, 39, 95, 98, 113, 116, 130, 143, 153, 154, 155,
71 164, 165, 172, 174, 190, 192, 198, 202, 206, 207, 238, 245,
72 246, 247, 253, 285, 295, 299, 300, 302, 338
73 <223> OTHER INFORMATION: n = A,T,C or G
74 <400> SEQUENCE: 4
W--> 75 ncggttgaac tacgganaac aacncgctgc cttcacagna cctagagtct cctttgggagc 60
W--> 76 taccaacctc gccgaaggta cggcgacaca gacngangt gtacaagctt ttntanatgg 120
W--> 77 tggatattcn acaattaaat tcntacgtac tcnngtcca gtcnngagtc cnantgagct 180
W--> 78 gtttgctaan tnatgaantt cnttcnngca cgtgaagggc aaagagaaat aagggccnac 240
W--> 79 ttccnnaag ggnttctctg cgcatttagg tatcaggctt acttnagtat gtatngccnn 300
W--> 80 cntccgagcg ggagagccaa ggggtgctga taaaattnaa aggaataaca taaaaa 356
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 577
84 <212> TYPE: DNA
85 <213> ORGANISM: Homo sapiens
86 <220> FEATURE:
87 <221> NAME/KEY: misc_feature
88 <222> LOCATION: 53, 58, 59, 143, 173, 197, 242, 303, 432, 491, 504, 514, 537
89 <223> OTHER INFORMATION: n = A,T,C or G
90 <400> SEQUENCE: 5
W--> 91 gtcgaccccg cgtccgctta gggaactgca atattataag tatagtaatg acngcagnng 60
92 agaaccataa tgatggcctc cccggcaaaag aagaaccaac cctgtgttac cctgaggttg 120
W--> 93 caattttttg aattttttgca gtnagacctt ggcatgacc ttgagcagta gngataaat 180
W--> 94 tccacatgct tagcgtncga gtaattggaac actaggcata aatgggttat taaagtatcc 240
W--> 95 anaattaaca tgcttagctg tgacattgga aaggcaatgt gtttgcctgt gcacacatac 300
W--> 96 tantaaataa tgactggctc gaatttggtt ttcgtttgtc tattaaagtc aatttactaa 360
97 ggcagggagg gccagagct gtgctgtcca gttcaatagc catgcgtgac tgctaaggac 420

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Input Set : N:\Cr3\02272002\J071510.raw

Output Set: N:\CRF3\03192002\J071510.raw

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W-1> 98      ttccaaagtg gntagtccaa tgtcaggtat gctgcaagtg tcaaacacac actggatttc 480
W-1> 99      aaagactaaa nccaaaaaaa tgtnaaatca tctnaatatt ttgggttatac tcgggttnaag 540
100      aaaataaaat tatttttgcc ttttatgttt ttaaaaag 577
102 <210> SEQ ID NO: 6
103 <211> LENGTH: 331
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapiens
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: 3
109 <223> OTHER INFORMATION: n = A,T,C or G
110 <400> SEQUENCE: 6
W-1> 111      ggncaccaca ctctacaaag gcagtcaact acatgacaca ttccgcttct gctgggtcac 60
112      caacttgacg atggactccg tgttggtcac tgtcaaggca ttgttctcct ccaatttgga 120
113      cccagcctg gtggagcaag tctttctaga taagaccctg aatgcctcat tccattgggt 180
114      gggctccacc taccagttgg tggacatcca tgtgacagaa atggagtcac cagtttatca 240
115      accaacaagc agctccagca cccagcactt ctacctgaat ttcaccatca ccaacctacc 300
116      atattcccag gacaaagccc agccaggcac c 331
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 446
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 7
123      ccctcgcggt ggcgggcgag gtgcatcacc ctgctgaggg acatccagga caaggtcacc 60
124      acactctaca aaggcagtca actacatgac acattccgct tctgcctggt caccaacttg 120
125      acgatggact ccgtgttggc cactgtcaag gcattgttct cctccaattt ggaccccagc 180
126      ctggtggagc aagtctttct agataagacc ctgaatgcct cattccattg gctgggctcc 240
127      acctaccagt tgggtggacat ccatgtgaca gaaatggagt catcagttta tcaaccaaca 300
128      agcagctcca gcaccagca cttctacctg aatttcacca tcaccaacct accatattcc 360
129      caggacaaag cccagccagg caccaccaat taccagagga acaaaaggaa tattgaggat 420
130      gcgctcaacc aactcttcga aacagc 446
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 497
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapiens
136 <220> FEATURE:
137 <221> NAME/KEY: misc_feature
138 <222> LOCATION: 497
139 <223> OTHER INFORMATION: n = A,T,C or G
140 <400> SEQUENCE: 8
141      tacttagggc gaattggagc tccccgcggt ggcgggcgag gtacgcggga gataagaccc 60
142      tgaatgcctc attccattgg ctgggctcca cctaccagtt ggtggacatc catgtgacag 120
143      aaatggagtc atcagtttat caaccaacaa gcagctccag caccagcac ttctacctga 180
144      atttcacat caccaacct ccatattccc gggacaaagc ccagccaggc accaccaatt 240
145      accagaggaa caaaaggaat attgaggatg cgctcaacca actcttccga aacagcagca 300
146      tcaagagtta tttttctgac tgtcaagttt caacattcag gtctgtcccc aacaggcacc 360
147      acaccggggt ggactccctg tgtaacttct cgccactggc tcggagagta gacagagttg 420
148      ccatttatga ggaatttctg cggatgaccc ggaatgggta cctgcccggg ccggccgctt 480
W-1> 149      cggctttaga actagtn 497

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Input Set : N:\Cr3\02272002\J071510.raw

Output Set: N:\CRF3\03192002\J071510.raw

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151 <210> SEQ ID NO: 9
152 <211> LENGTH: 488
153 <212> TYPE: DNA
154 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: 27
158 <223> OTHER INFORMATION: n = A,T,C or G
159 <400> SEQUENCE: 9
*--> 160   atagggcgaa ttggagctcc ccgcggnggc ggccgaggta ccattccggg tcatccgcag 60
161   aaattcctca tagatggcaa ctctgtctac tctccgagcc agtggcgaga agttacacag 120
162   ggagtccacc ccggtgtggt gctgtgtggg gacagacctg aatgttgaaa cttgacagtc 180
163   agaaaaataa ctcttgatgc tgctgtttcg gaagagttgg ttgagcgcac cctcaatatt 240
164   ccttttgttc ctctggtaat tgggtgggcc tggctgggct ttgtcctggg aatatggtag 300
165   gttggtgatg gtgaaattca ggtagaagtg ctgggtgctg gagctgcttg ttggttgata 360
166   aactgatgac tccatttctg tcacatggat gtccaccaac tggtaggtgg agcccagcca 420
167   atgggaatga ggcattcagg gtcttatcta gaaagacttg ctccaccagg ctgggggtcca 480
168   aattggag                                     488
170 <210> SEQ ID NO: 10
171 <211> LENGTH: 463
172 <212> TYPE: DNA
173 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 10
175   ccgcggtggc ggccgcccgg gcaggtacat caccctgctg agggacatcc aggacaaggt 60
176   caccacactc tacaaaggca gtcaactaca tgacacattc cgcttctgcc tggtcaccaa 120
177   cttgacgatg gactccgtgt cggctactgt caaggcattg ttctcctcca atttggaccc 180
178   cagcctggtg gagcaagtct ttctagataa gaccctgaat gcctcattcc attggctggg 240
179   ctccacctac cagttggtgg acatccatgt ggcagaaatg gagtcacacg tttatcaacc 300
180   aacaagcagc tccagcacc agcacttcta cctgaatttc accatcacca acctaccata 360
181   ttcccaggac aaagcccagc caggcaccac caattaccag aggaacaaaa ggaatattga 420
182   ggatgcgctc aaccaactct tccgaaacag cagcatcaag agt                                     463
184 <210> SEQ ID NO: 11
185 <211> LENGTH: 302
186 <212> TYPE: DNA
187 <213> ORGANISM: Homo sapiens
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: 6, 52, 53
191 <223> OTHER INFORMATION: n = A,T,C or G
192 <400> SEQUENCE: 11
W--> 193   accgcngtgg cgccgcgccg ggcaggtaca tcaccctgct gagggacttt tnnngacaag 60
194   gtcaccacac tctacaaagg cagtcaacta catgacacat tccgcttctg cctggtcacc 120
195   aacttgacga tggactccgt gttggtcact gtcaaggcat tgttctcctc caatttggac 180
196   cccagcctgg tggagcaagt ctttctagat aagaccctga atgcctcatt ccattggctg 240
197   ggctccacct accagttggt ggacatccat gtgacagaaa tggagtcac agttttatca 300
198   ac                                     302
200 <210> SEQ ID NO: 12
201 <211> LENGTH: 534
202 <212> TYPE: DNA

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Input Set : N:\Crf3\02272002\J071510.raw

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203 <213> ORGANISM: Homo sapiens
 204 <220> FEATURE:
 205 <221> NAME/KEY: misc_feature
 206 <222> LOCATION: 18, 463, 474, 518
 207 <223> OTHER INFORMATION: n = A,T,C or G
 208 <400> SEQUENCE: 12
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 210 aacttcacca tctccaatct ccagtattca ccagatatgg gcaagggctc agctacattc 120
 211 aactccaccg aggggggtcct tcagcacctg ctcagaccct tgttccagaa gaggcagcatg 180
 212 ggcccccttct acttgggttg ccaactgac tccctcaggc ctgagaagga tggggcagcc 240
 213 actggtgtgg acaccacctg cacctaccac cctgacctg tgggccccgg gctggacata 300
 214 cagcagcttt actgggagct gagtcagctg acccatgggt gtcacccaac tgggtttcta 360
 215 ttgtcttgga cagggatagc ctcttcacat atggctatgc accccaaaat ttatcaatcc 420
 W--> 216 gggggcgagg tacctgcccc gggcgggcgg cttaaaacta ggngggatcc cccnggcttg 480
 W--> 217 caggaatttc gatattcaag cttatcgata cccgtccnac cttcgagggg gggg 534
 219 <210> SEQ ID NO: 13
 220 <211> LENGTH: 290
 221 <212> TYPE: DNA
 222 <213> ORGANISM: Homo sapiens
 223 <220> FEATURE:
 224 <221> NAME/KEY: misc_feature
 225 <222> LOCATION: 15, 16, 39, 41, 71, 106, 129, 137, 140, 149, 164, 167, 226,
 226 245, 251, 263, 268
 227 <223> OTHER INFORMATION: n = A,T,C or G
 228 <400> SEQUENCE: 13
 W--> 229 tgggggaaag ggagnnccca acgacctctg aactttaant ntggaaagag tgagattcag 60
 W--> 230 aaatcgccac nactggactt taagggacgt cctgtgtcag cacaangac tggcacacac 120
 W--> 231 agacacacna gaccgangan aaactgcana caaatggaga tacnaanact tagaaggaca 180
 W--> 232 gctcctttca cctcatccta cttgtccaga aggtaaaaag acacanccag aaagaaaagg 240
 W--> 233 catcngctca nctctcagat cangacangc tgtggatctg tggcgggtact 290
 235 <210> SEQ ID NO: 14
 236 <211> LENGTH: 430
 237 <212> TYPE: DNA
 238 <213> ORGANISM: Homo sapiens
 239 <220> FEATURE:
 240 <221> NAME/KEY: misc_feature
 241 <222> LOCATION: 93, 315, 407
 242 <223> OTHER INFORMATION: n = A,T,C or G
 243 <400> SEQUENCE: 14
 244 gcgtccgaat ttcttgggta ccccgatat aagaaaatgt taaagtcagg caggaaaact 60
 W--> 245 atagaattaa agccttatag tatattatat agnaaaagccc tatatagtat agacagaaaa 120
 246 gtttagggaa ggcccacaa tgcaaagaaa agtgggtggc acggaacaag ggaatgtcat 180
 247 acaaagtgg acacacactg cgttactgag cgccacgtct cataggtgag aagcataact 240
 248 ctagaagtg agaaatgaga attttcaact ccatccttcc atttgtttg tgactctgcc 300
 W--> 249 atttactttc ctttnttttg tattttcatt ttctttttta aaatggaaat atgaattttg 360
 W--> 250 aatttctgct ctatctcaca ggttttttgt ggggatgcac ttaaaangtt taattagtaa 420
 251 ataatgggtat 430
 253 <210> SEQ ID NO: 15
 254 <211> LENGTH: 435

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 57,62,71,78,117,133,137,207,219,226,229
Seq#:2; N Pos. 338,349,388
Seq#:4; N Pos. 1,17,24,39,95,98,113,116,130,143,153,154,155,164,165,172,174
Seq#:4; N Pos. 190,192,198,202,206,207,238,245,246,247,253,285,295,299,300
Seq#:4; N Pos. 302,338
Seq#:5; N Pos. 53,58,59,143,173,197,242,303,432,491,504,514,537
Seq#:6; N Pos. 3
Seq#:8; N Pos. 497
Seq#:9; N Pos. 27
Seq#:11; N Pos. 6,52,53
Seq#:12; N Pos. 18,463,474,518
Seq#:13; N Pos. 15,16,39,41,71,106,129,137,140,149,164,167,226,245,251,263
Seq#:13; N Pos. 268
Seq#:14; N Pos. 93,315,407
Seq#:15; N Pos. 39,242,363,393,404,406,412